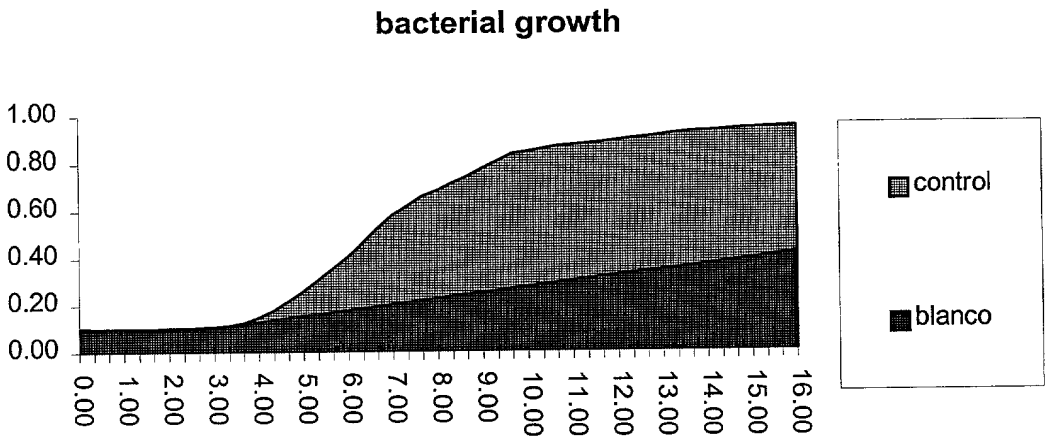

bacterial growth
1.00
0.80
0.60
0.40
0.20
0.00
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
control
blanco

FIG. 1

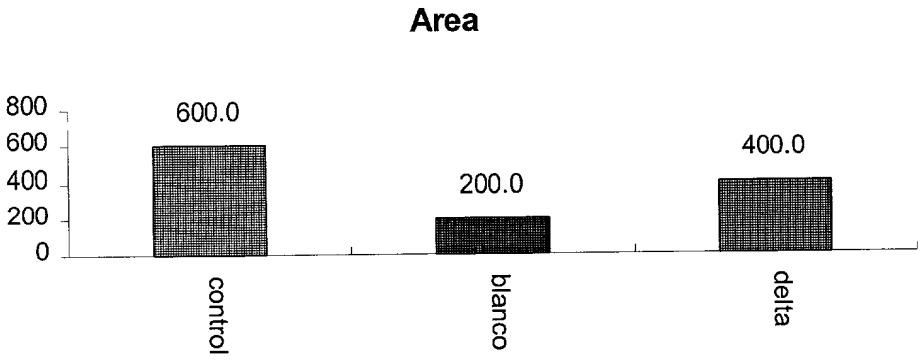

Area
800
600
400
200
0
600.0
200.0
400.0
control
blanco
delta

FIG. 2

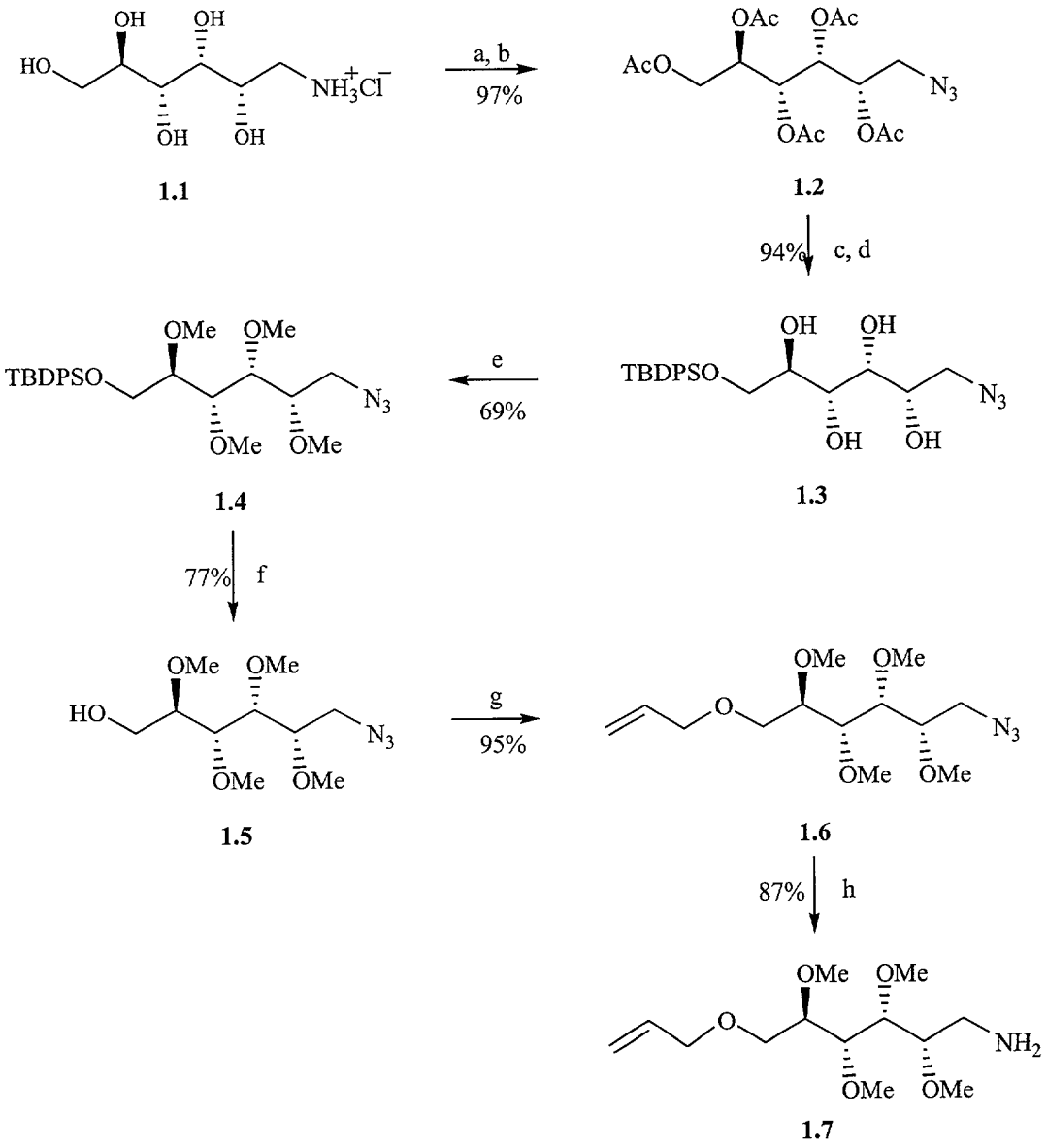

OH
OH
HO
NH3Cl
OH
OH
1.1
a, b
97%
OAc
OAc
AcO
N3
OAc
OAc
1.2
94%
c, d
OMe
OMe
TBDPSO
N3
OMe
OMe
1.4
e
69%
OH
OH
TBDPSO
N3
OH
OH
1.3
77%
f
OMe
OMe
HO
N3
OMe
OMe
1.5
g
95%
OMe
OMe
O
N3
OMe
OMe
1.6
87%
h
OMe
OMe
O
NH2
OMe
OMe
1.7

FIG. 3

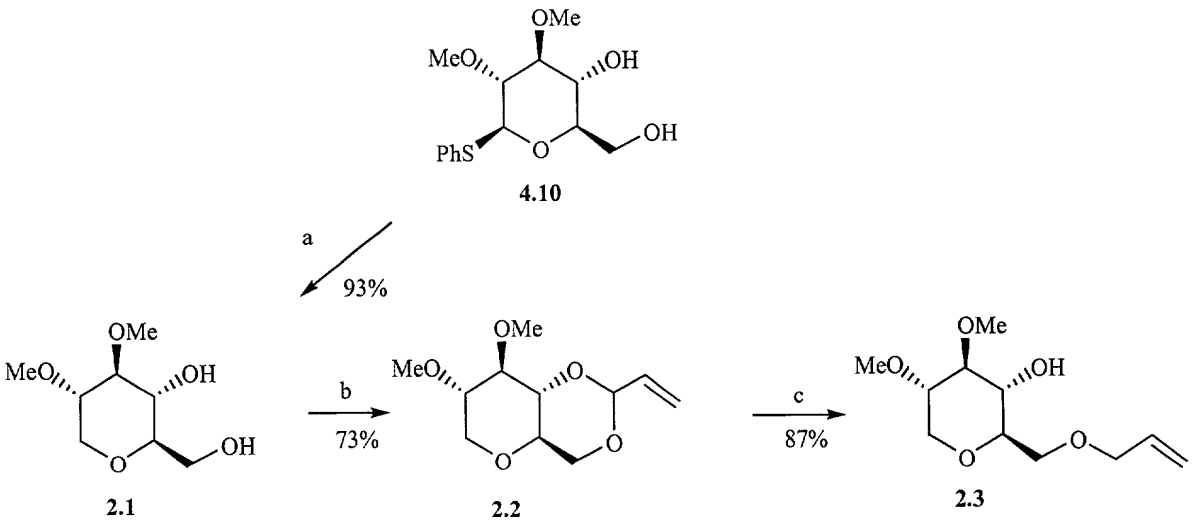

OMe
MeO
OH
PhS
O
OH
4.10
a
93%
OMe
MeO
OH
O
OH
2.1
b
73%
OMe
MeO
O
O
2.2
c
87%
OMe
MeO
OH
O
O
2.3

FIG. 4

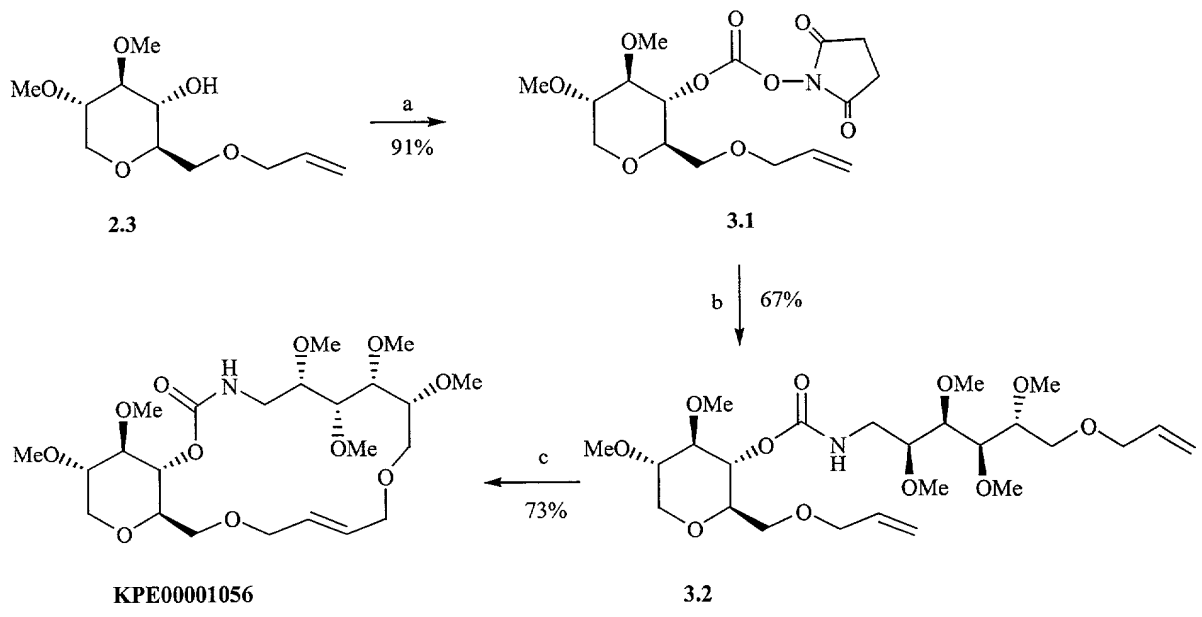
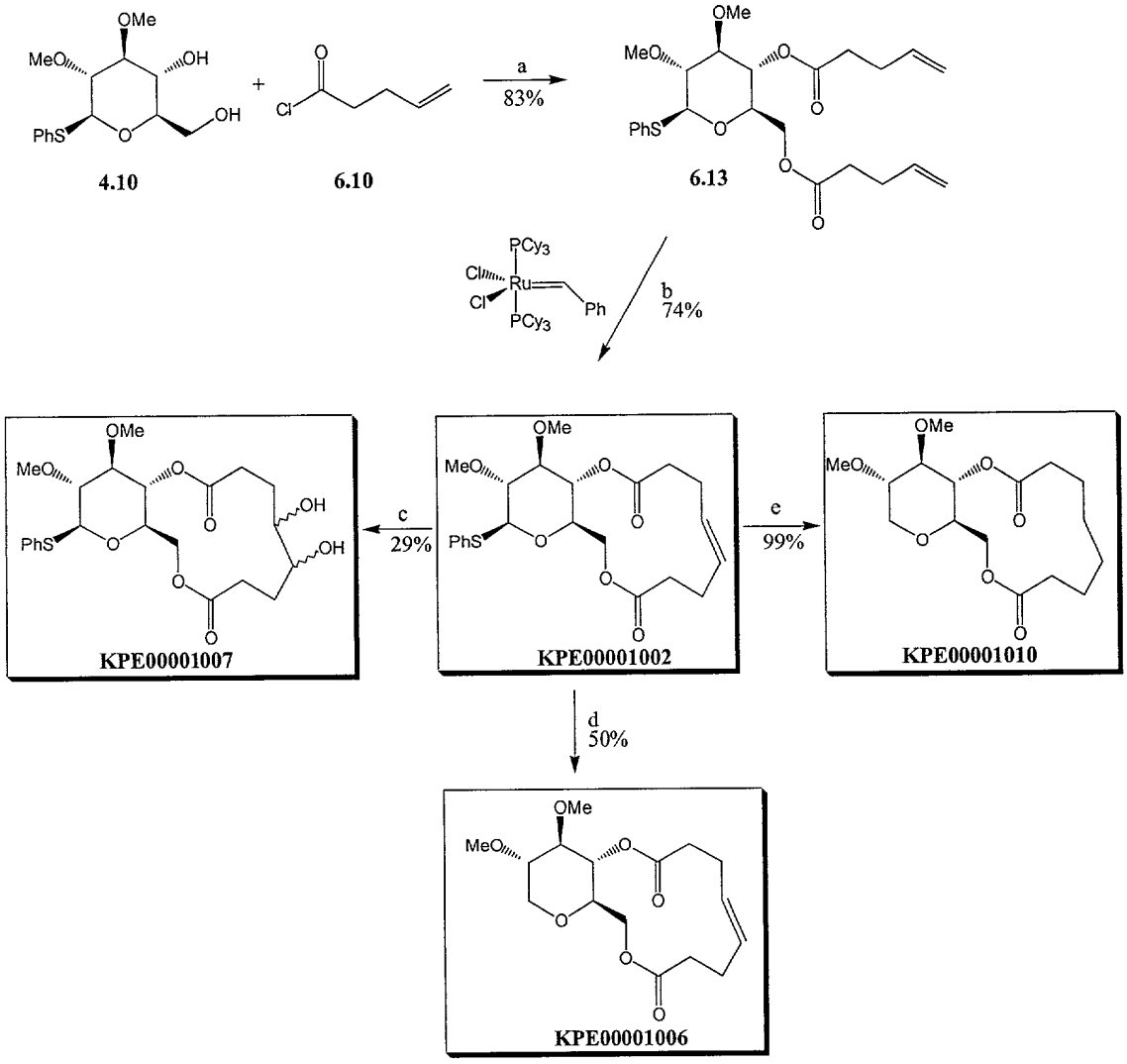
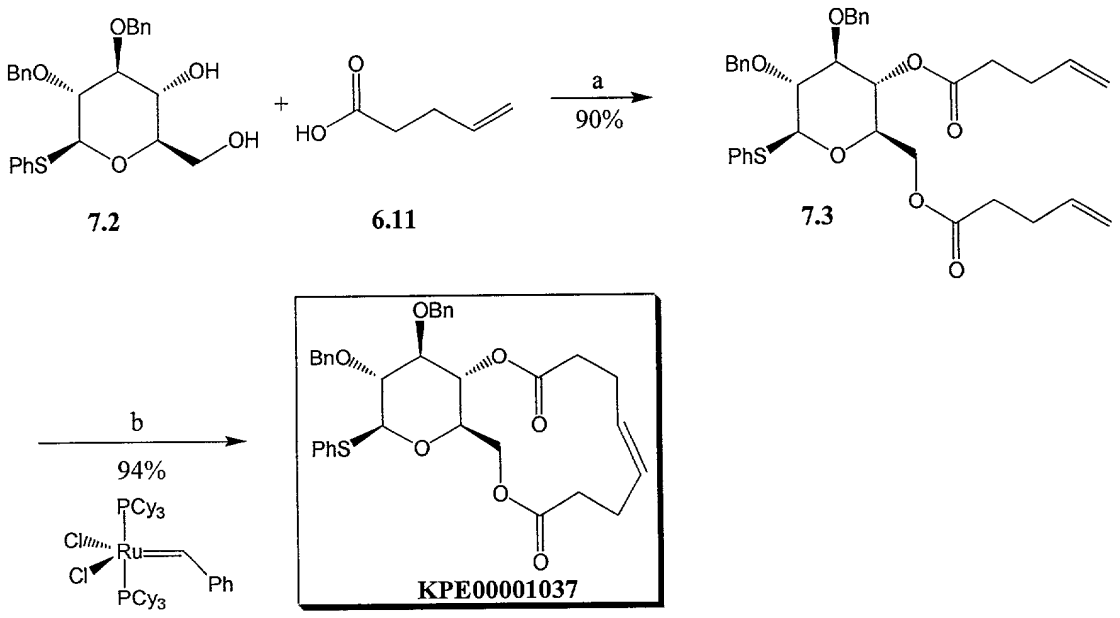

OMe
MeO
OH
O
O
2.3
a
91%
OMe
MeO
O
O
O
O
O
N
O
3.1
b
67%
OMe
MeO
O
O
N
H
OMe
OMe
OMe
OMe
O
O
3.2
c
73%
OMe
OMe
OMe
OMe
MeO
O
H
N
O
O
O
KPE00001056

FIG. 5



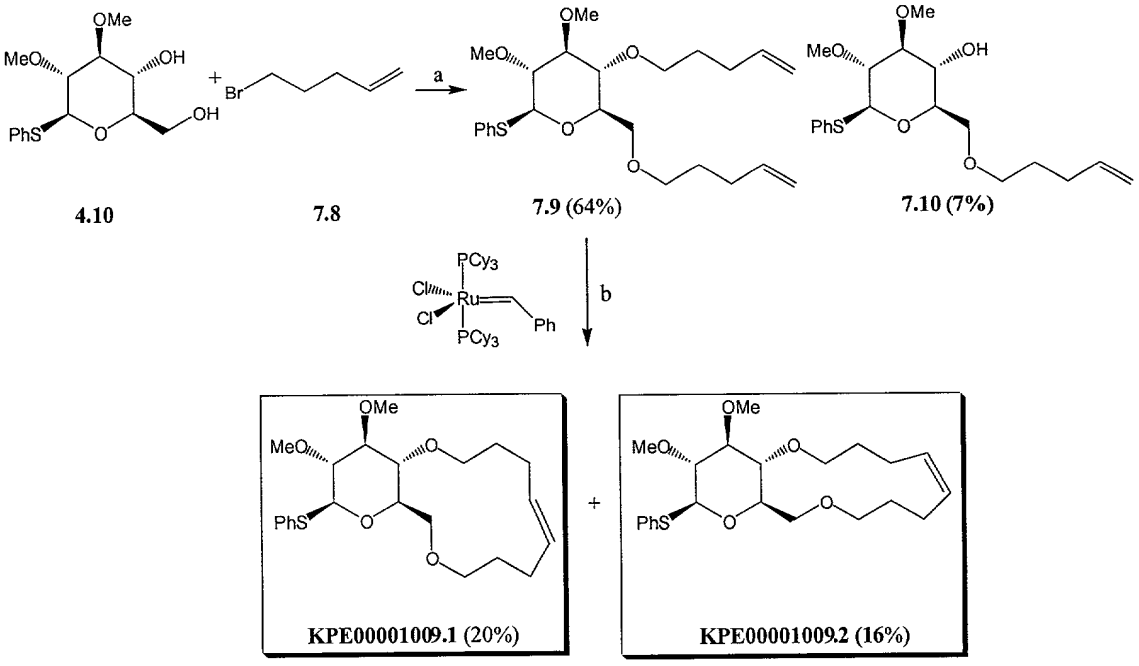
a) pyridine, DMAP, CH_2Cl_2, r.t., 18 h; b) Grubb's cat. 10 mol%, CH_2Cl_2, r.t., 48 h;
c) OsO_4, NMMO, t.BuOH, actone/H_2O, 2.5/1, r.t., 1 h; d) Raney-Ni, EtOH, r.t., 1 h;
e) Raney-Ni, H_2, EtOH, r.t., 1 h.

FIG. 6



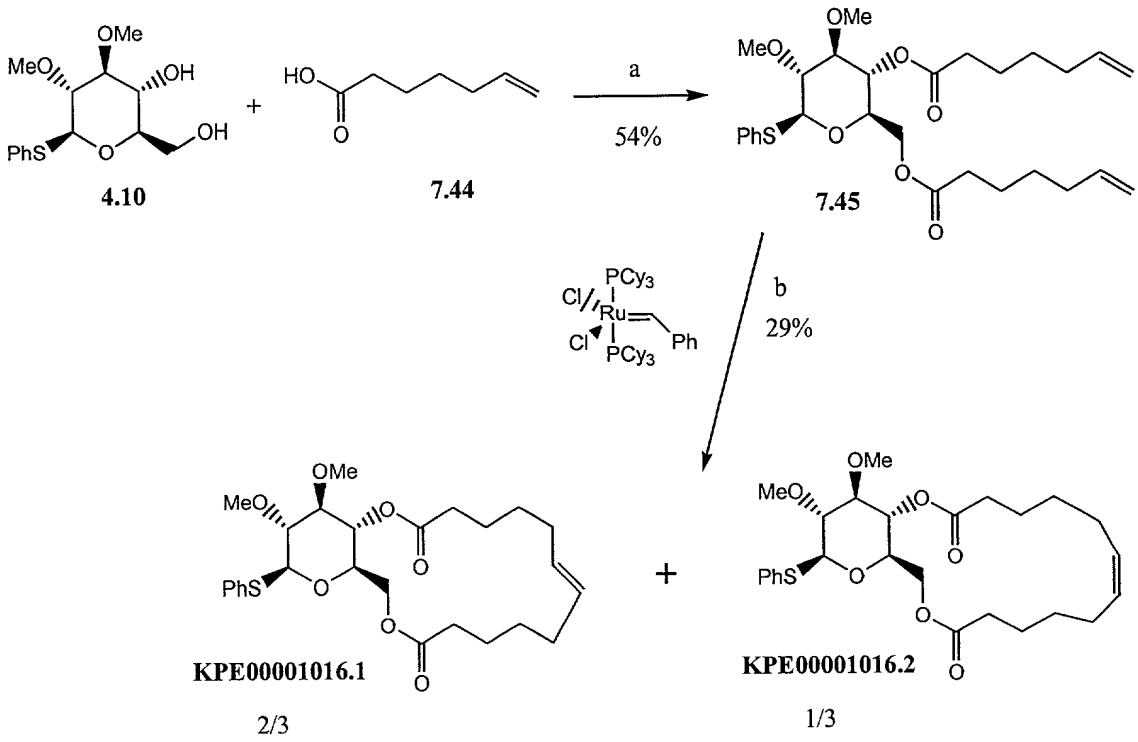
a) DIC, HOBt, DMAP, CH_2Cl_2, r.t., 120 h; b) Grubb's cat. 10 mol%, CH_2Cl_2, r.t., 95 h;

FIG. 7



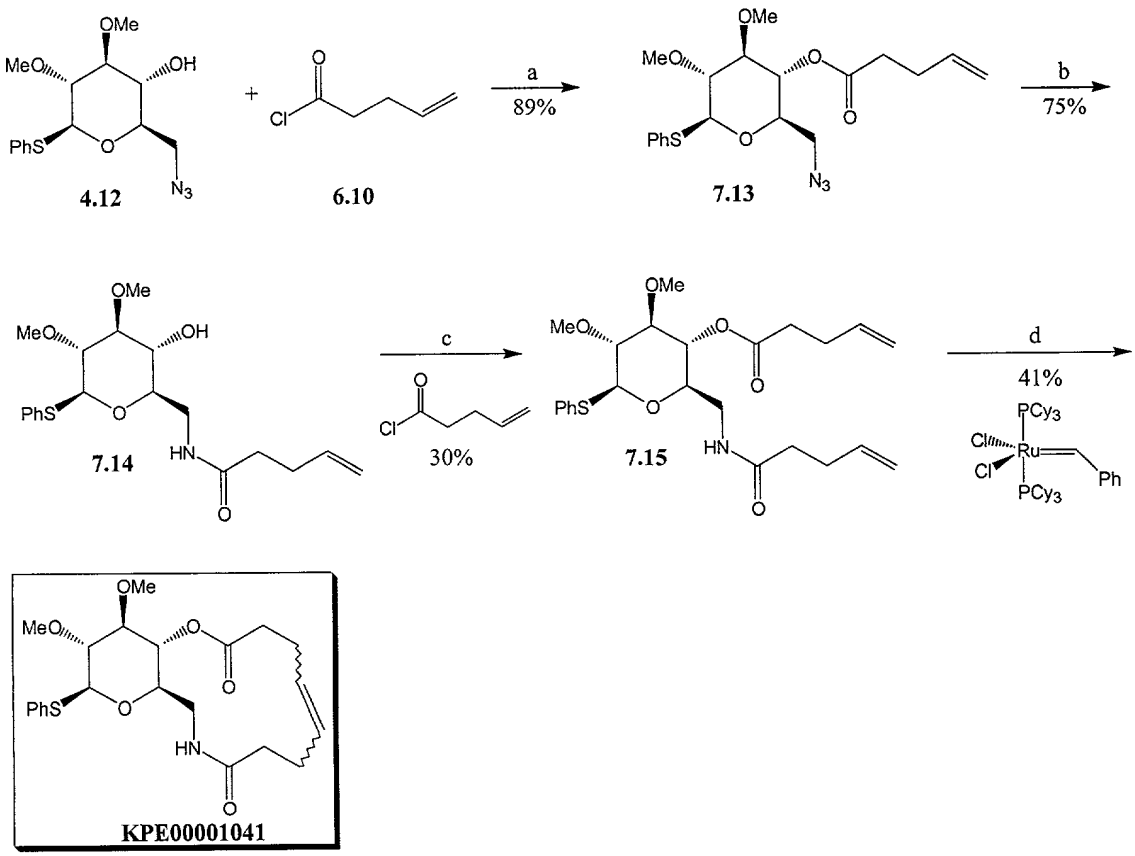
a) NaH, TBAI, THF, 0°C to r.t., 42 h; b) Grubb's cat. 20 mol%, CH_2Cl_2, r.t., 48 h;

FIG.8



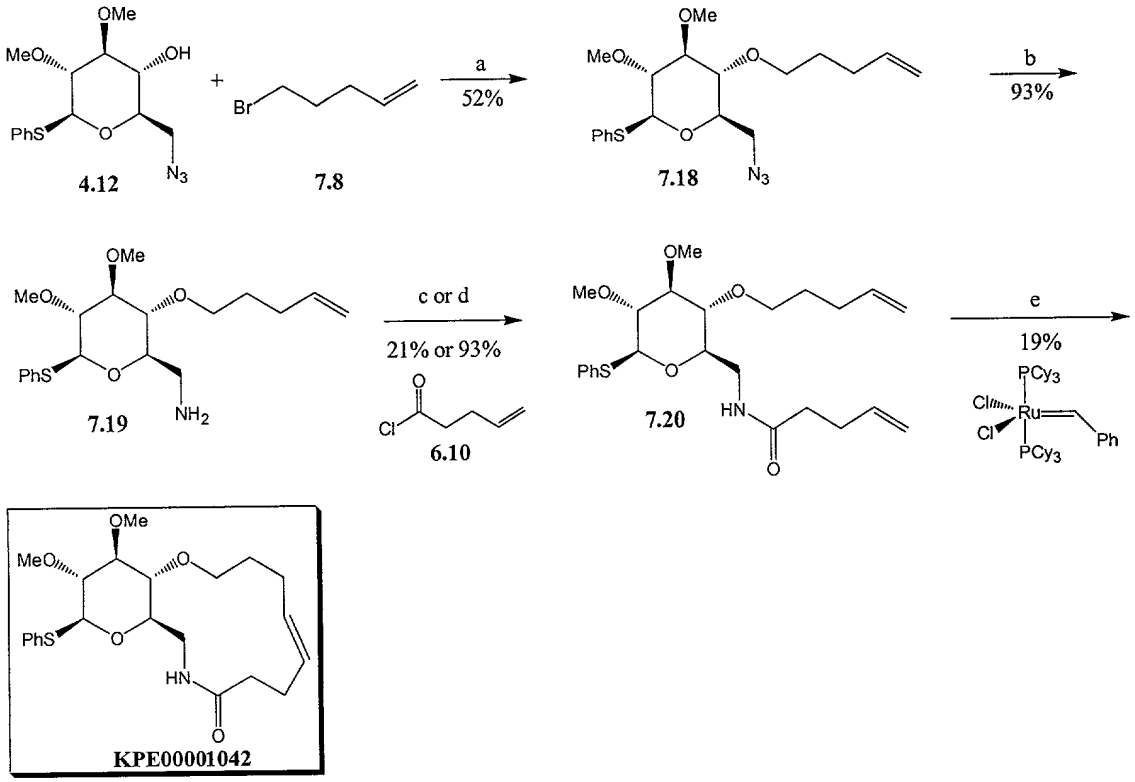
a) DIC, HOBt, DMAP, CH_2Cl_2, r.t., 72h; b) Grubbs' cat. 10 mol%, CH_2Cl_2, r.t., 46h.

FIG. 9



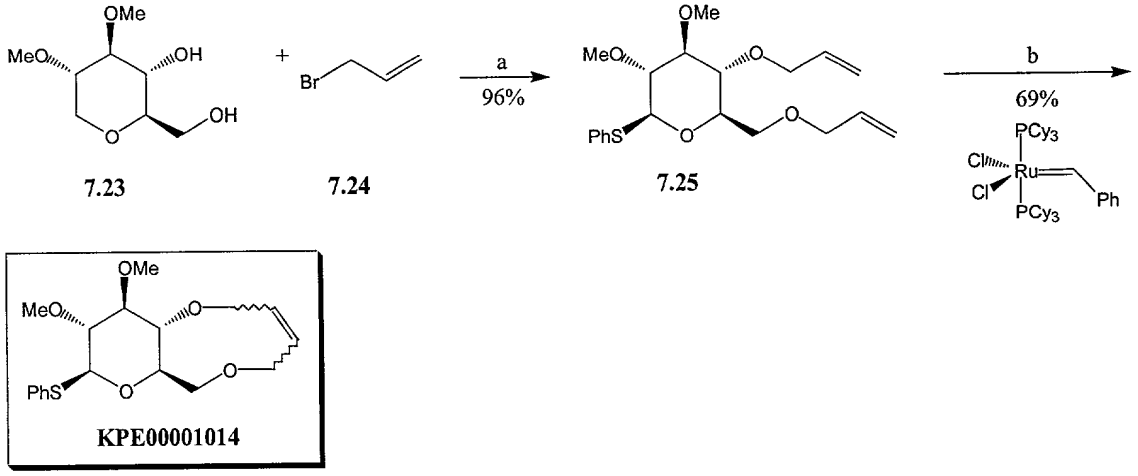
a) pyridine, DMAP, CH_2Cl_2, r.t., 24 h; b) PPh_3 (polystyrene carrier), THF/H2O, 100/1, r.t., 48 h;
c) Et_3N, CH_2Cl_2, r.t., 24 h; d) Grubb's cat. 30 mol%, CH_2Cl_2, reflux, 16 h;

FIG. 10



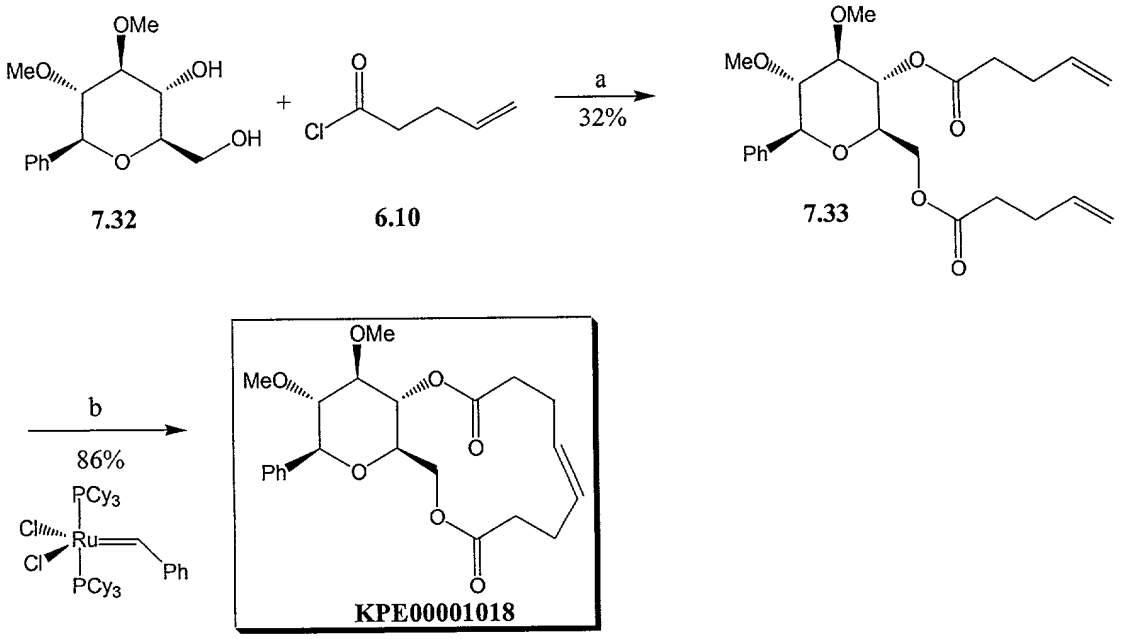
a) NaH, TBAI,THF, 0°C to r.t., 24 h; b) PPh_3, THF/H_2O, 100/1, r.t., 48 h; c) DIPEA, CH_2Cl_2, r.t., 19 h; d) pyridine, DMAP, CH_2Cl_2, 0°C to r.t., 2 h; e) Grubb's cat 20 mol%, CH_2Cl_2, r.t., 18 h;

FIG. 11



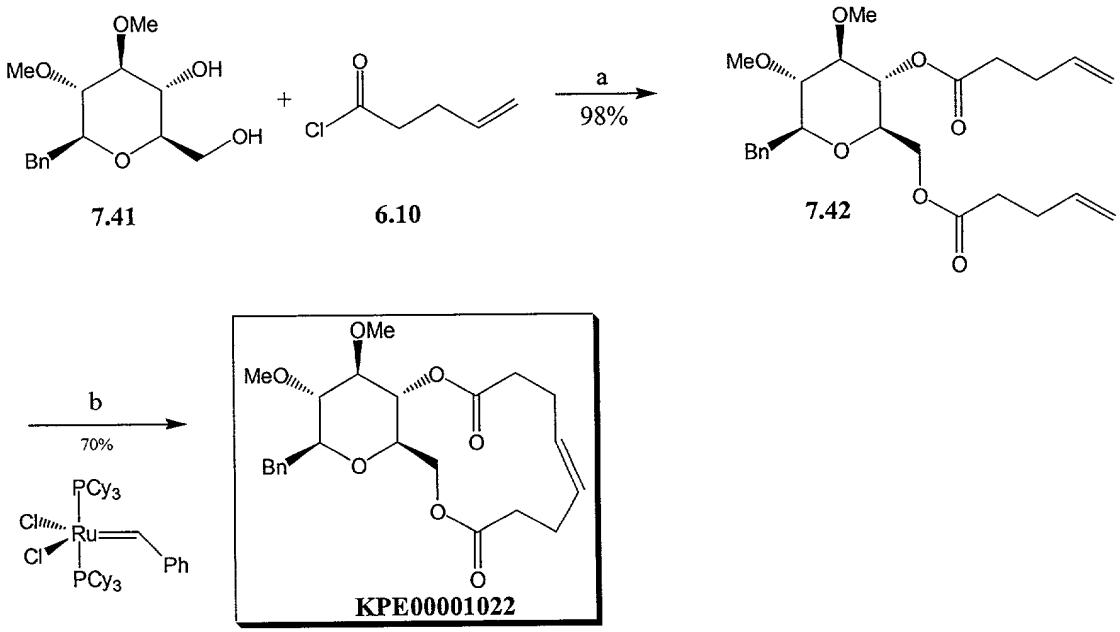
a) NaH, TBAI, THF, 0°C to r.t., 18 h; b) Grubb's cat 10 mol%, CH_2Cl_2, r.t., 48 h;

FIG. 12



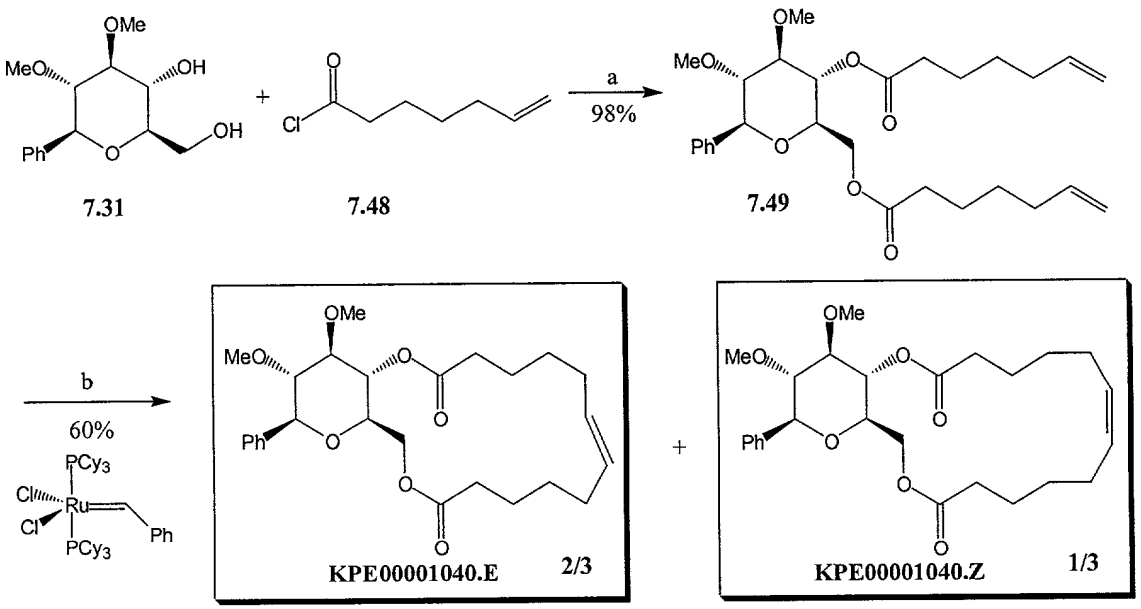
a) pyridine, DMF, 90°C, 2 h; b) Grubb's cat. 10 mol%, CH_2Cl_2, r.t., 72 h;

FIG. 13



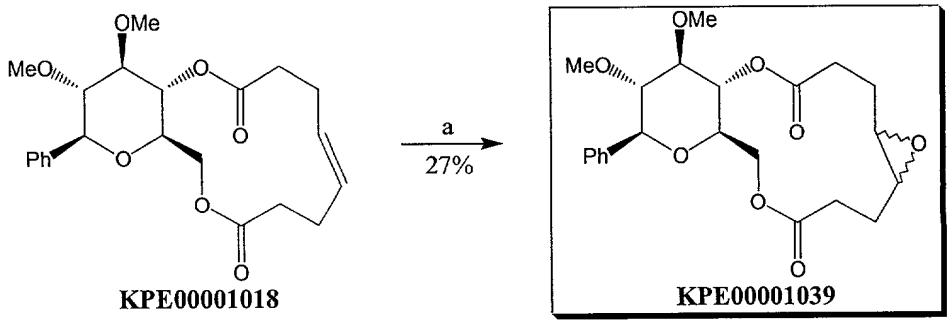
a) pyridine, DMAP, CH_2Cl_2, 0°C, 22 h; b) Grubb's cat. 12 mol%, CH_2Cl_2, r.t., 48 h;

FIG. 14



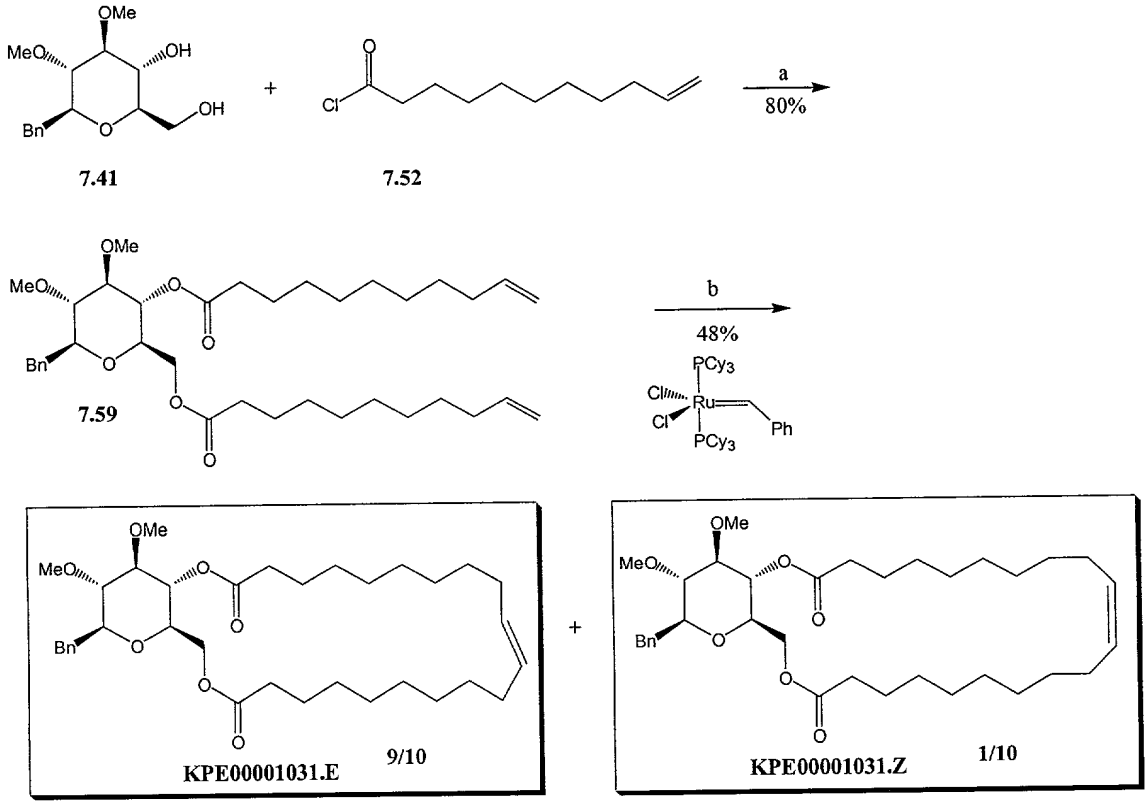
a) pyridine, DMAP, CH_2Cl_2, 0°C to r.t., 18 h; b) Grubb's cat. 10 mol%, CH_2Cl_2, r.t., 46 h;

FIG. 15



a) mCPBA, CH_2Cl_2, r.t., 72 h

FIG. 16



a) pyridine, DMAP, CH_2Cl_2, 0°C to r.t., 18 h; b) Grubb's cat. 10 mol%, CH_2Cl_2, r.t., 18 h;

FIG. 17

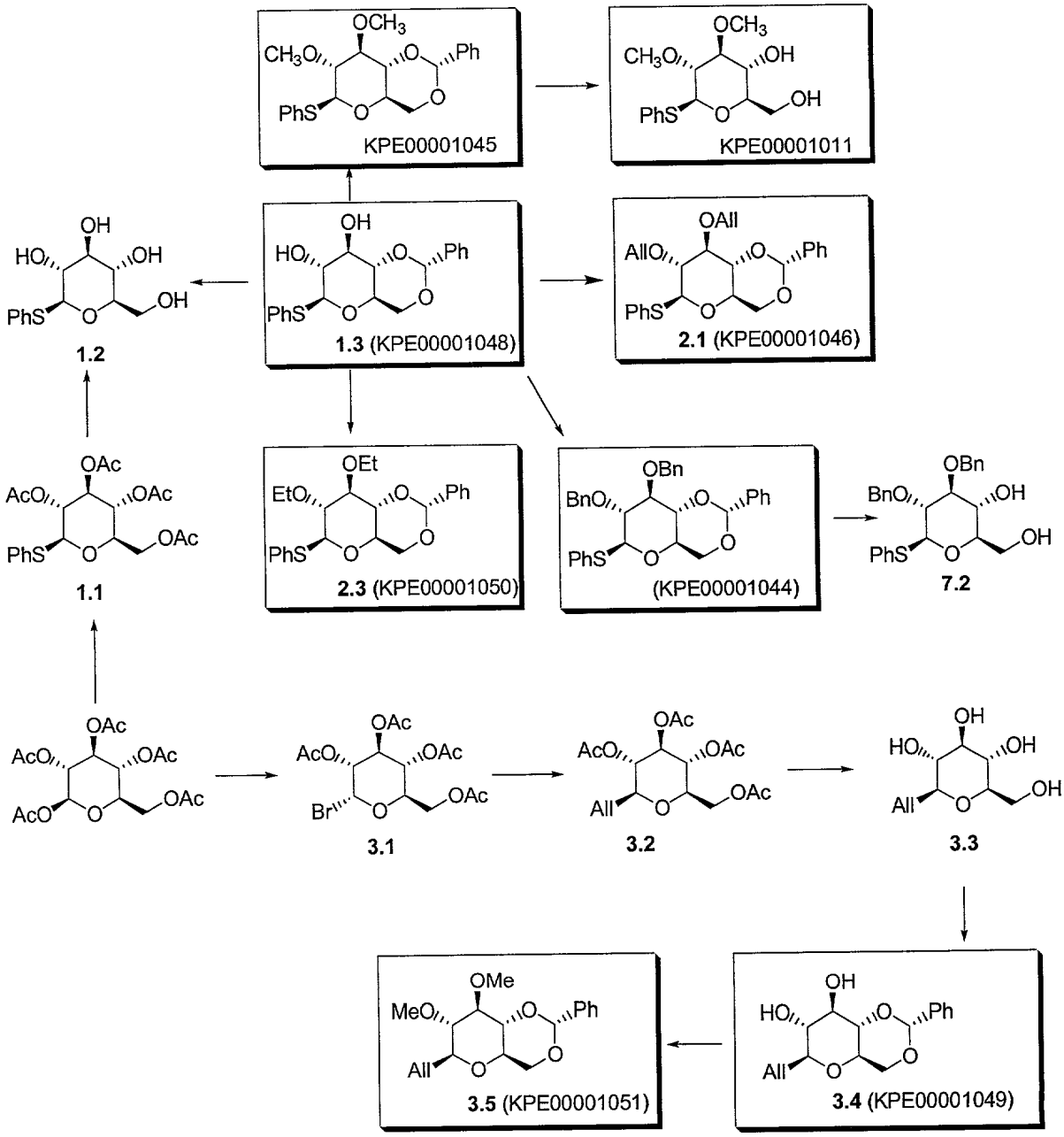

KPE00001045
KPE00001011
1.3 (KPE00001048)
2.1 (KPE00001046)
1.2
1.1
2.3 (KPE00001050)
(KPE00001044)
7.2
3.1
3.2
3.3
3.5 (KPE00001051)
3.4 (KPE00001049)

FIG. 18

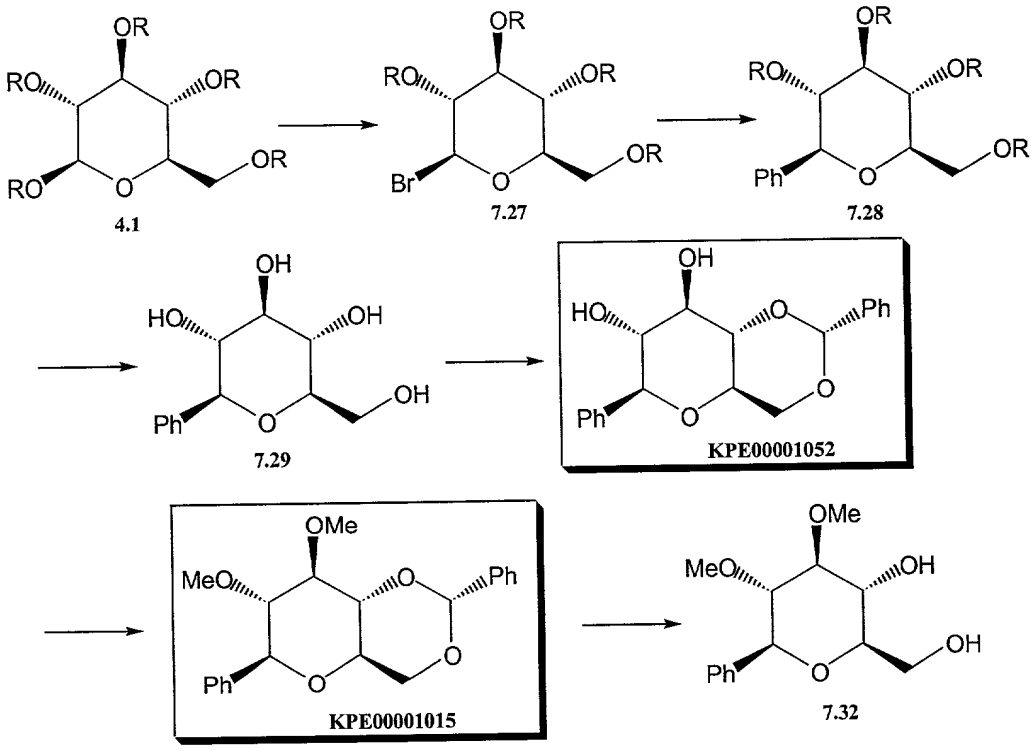

OR
RO
OR
RO
O
OR
4.1
Br
7.27
Ph
7.28
HO
OH
OH
Ph
7.29
KPE00001052
MeO
OMe
KPE00001015
7.32

FIG. 19

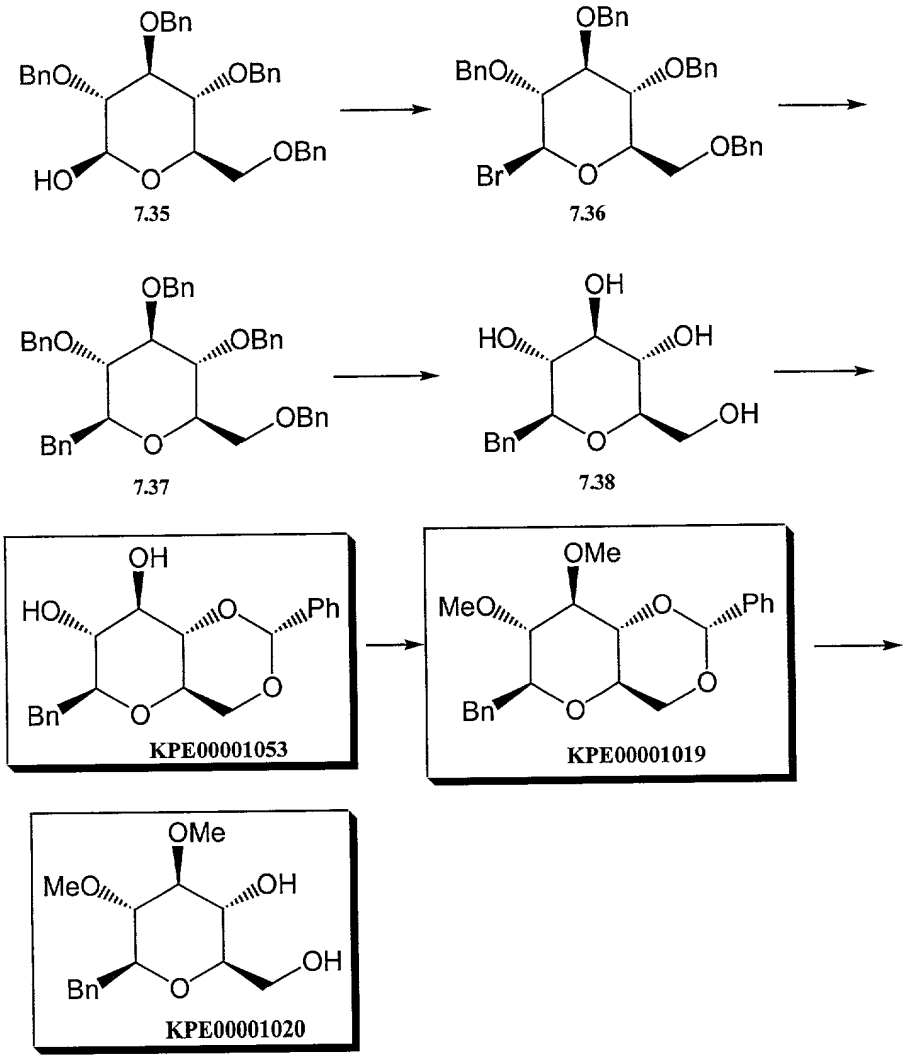

OBn
BnO
OBn
HO
OBn
O
7.35
OBn
BnO
OBn
Br
OBn
O
7.36
OBn
BnO
OBn
Bn
OBn
O
7.37
OH
HO
OH
Bn
OH
O
7.38
OH
HO
O
Ph
Bn
O
O
KPE00001053
OMe
MeO
O
Ph
Bn
O
O
KPE00001019
OMe
MeO
OH
Bn
OH
O
KPE00001020

FIG. 20